d his

          (FILE 'USPAT' ENTERED AT 14:38:47 ON 26 JUL 1999)
L1   278889 S SUBSTRATE
L2   1121 S (FIBER# OR FIBRE#)(5A)GRATING#
L3   99 S L1(P)L2
L4   56595 S (THERMAL OR TEMPERATURE)(3A)EXPANSION
L5   4741 S L1(9A)L4
L6   25 S L3 AND L5
L7   3 S (5581642 OR 4444460 OR 4444458)/PN
L8   3 S L4 AND L7
L9   1 S 4444460/PN AND GRATING#
L10   374 S NEGATIVE(5A)L4
L11   10 S L1(12A)L10
L12   14656 S 385/CLAS
L13   3 S L11 AND L12
L14   34 S L10 AND L12
L15   12 S L1 AND L14
L16   3 S L2 AND L15
L17   253557 S (FIBER# OR FIBRE#)
L18   11 S L15 AND L17